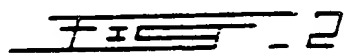
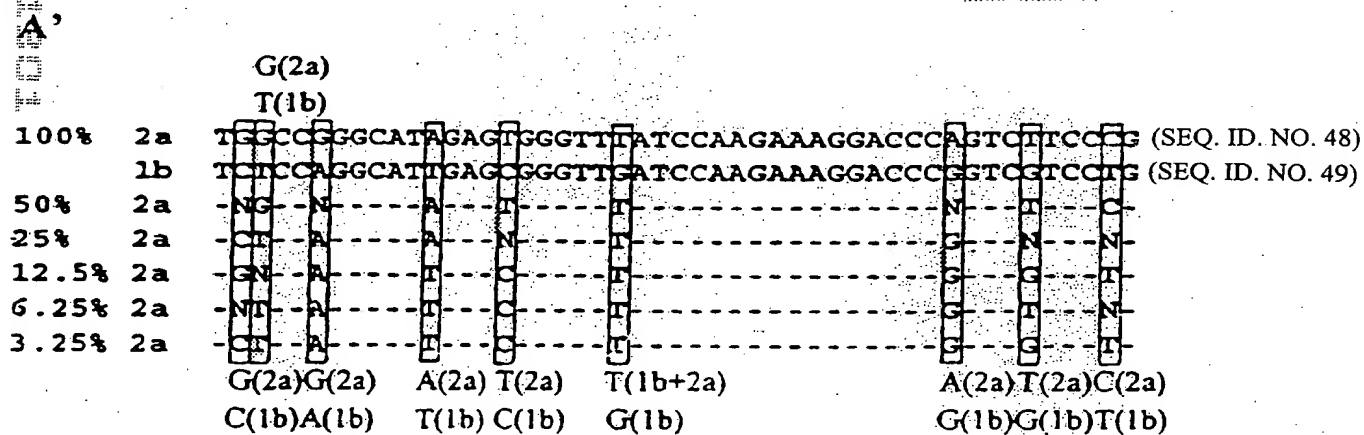
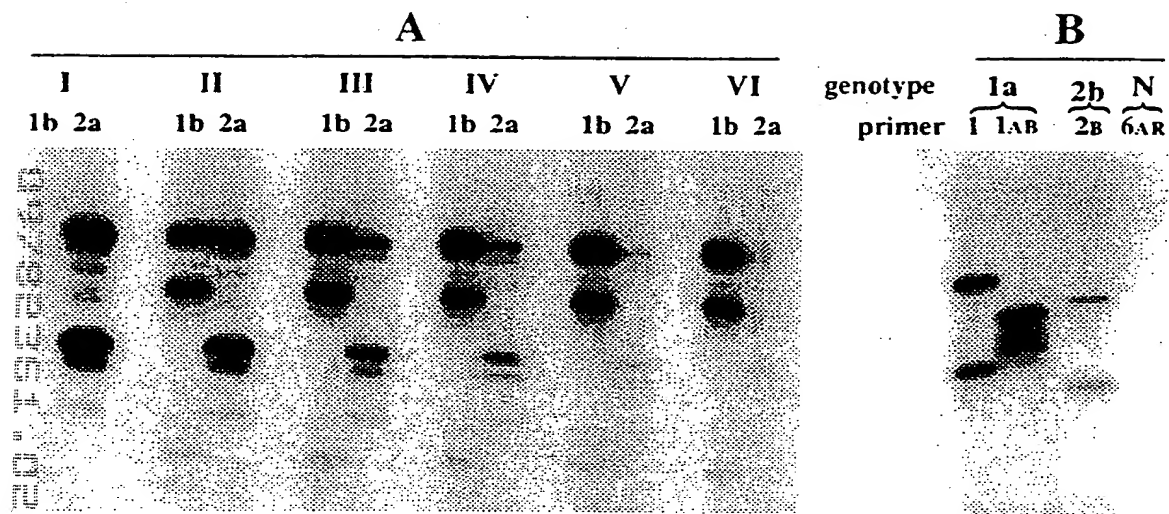


FIG. 1

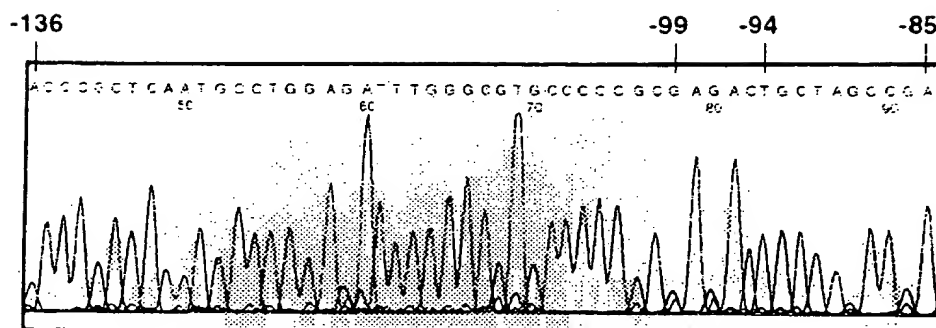


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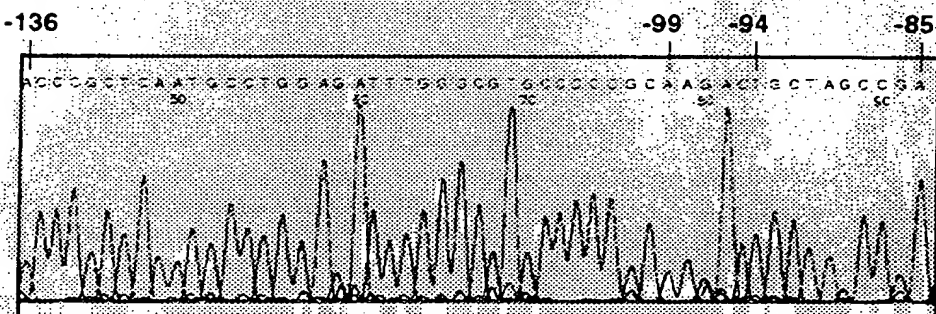


**FIG. 3**

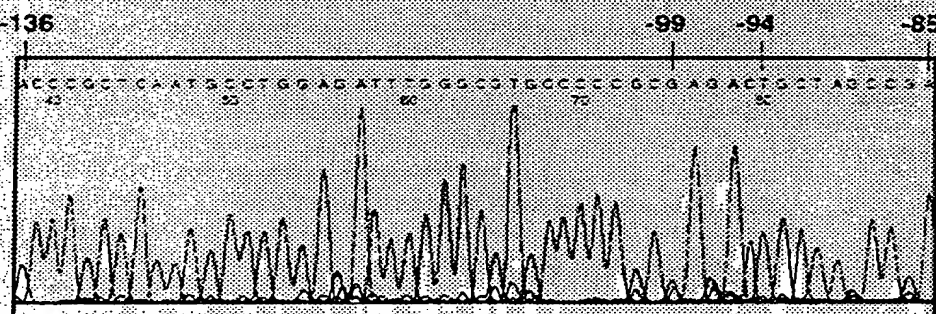
I J  
(1b)



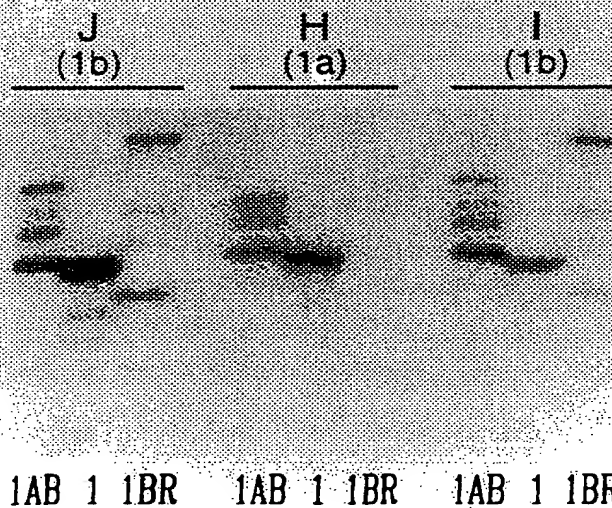
H  
(1a)



I  
(1b)



II

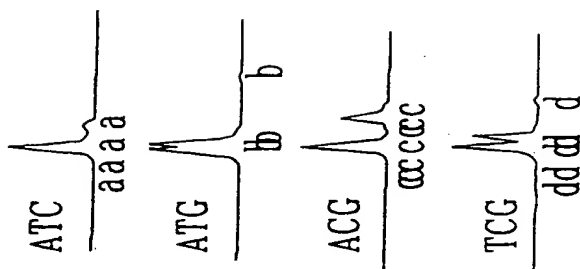


dNTPs

Expected base extension

ATC	Primer → T CAXX	3
ATG	Primer → T X-XX	1
ACG	Primer → X-X	0
TCG	Primer → T CX--X	2
WT	-----A GTCCACATCCT----- (SEQ ID NO:16)	
ATC	Primer → X X	0
ATG	Primer → G XX	1
ACG	Primer → G CAGGX-X	5
TCG	Primer → G CX--X	2
MU	-----C GTCCACATCCT----- (SEQ ID NO:17)	

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7:5A

7:5B

3' XTCATACTAXTCCATGAGTATCTTTAGACACCTGTATTTCG 5' L63 + PRIMER (1) (SEQ ID NO:18)  
 5' AGACAGTATGATCAGGTACTCATAGAAATCTGTGGACATAAAGC 3' PRO63L(G)-R (SEQ ID NO:19)

X

3' GAGTATCTTTAGACACCTGTATTTCG 5' L63P + PRIMER (2) (SEQ ID NO:20)  
 5' AGACAGTATGATCAGGTACCCCATAGAAATCTGTGGACATAAAGC 3' PRO63L(G)-R (SEQ ID NO:21)

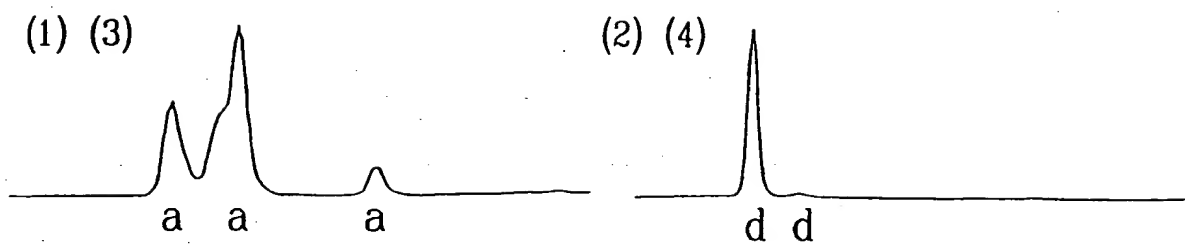
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3' XTCATACTAXTCCATGGGTATCTTTAGACACCTGTATTTCG 5' L63P + PRIMER (3) (SEQ ID NO:22)  
 5' AGACAGTATGATCAGGTACCCCATAGAAATCTGTGGACATAAAGC 3' PRO63P(G)-R (SEQ ID NO:21)

X

3' GGGTATCTTTAGACACCTGTATTTCG 5' L63 + PRIMER (4) (SEQ ID NO:23)  
 5' AGACAGTATGATCAGGTACTCATAGAAATCTGTGGACATAAAGC 3' PRO63P(G)-R (SEQ ID NO:19)

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3' XXAGACTTCTGAGTCTAACCAACGTGAAATTTA 5' PRO90L-R  
 5' --AATCTGAAGACTCAGATTGGTTGCACCTTTAAAT---3' L90 (SEQ ID NO:25)  
 (1) (SEQ ID NO:24)

X

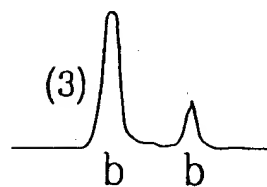
3' TTCTGAGTCTAACCAACGTGAAATTTA 5' PRO90L-R  
 5' --AATCTGATGACTCAGATTGGTTGCACCTTTAAAT---3' L90M (SEQ ID NO:27)  
 (2) (SEQ ID NO:26)

5' CTGTCAACATAATTGGAAGAAATCTGATGACGCAGAXX 3' PRO90M-F  
 3' --GACAGTTGTATTAACTTCTTTAGACTACTGCGTCTAA---5' L90M (SEQ ID NO:29)  
 (3) (SEQ ID NO:28) 8/10

X

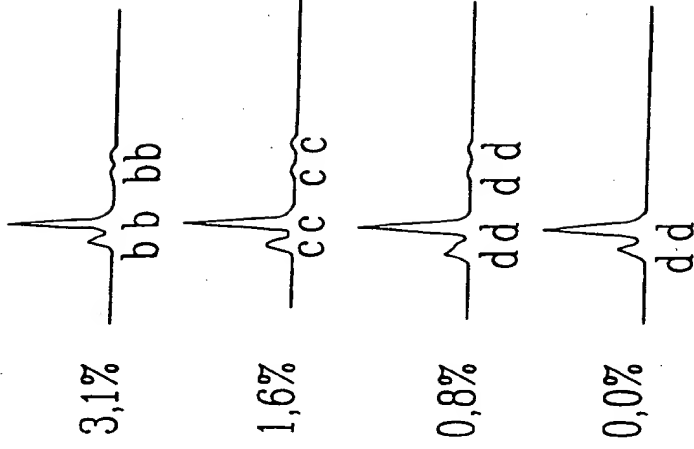
5' CTGTCAACATAATTGGAAGAAATCTGAT 3' PRO90M-F  
 3' --GACAGTTGTATTAACTTCTTTAGACAACCTGAGTCTAA--5' L90 (SEQ ID NO:31)  
 (4) (SEQ ID NO:30)





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MU → T AGTTGTATTAAAXX (SEQ ID NO:32)  
----- A TCAACATAATTGGAAGA (SEQ ID NO:33)

→ X  
----- G -----

TTT-A